

Contents

Volume 101, April 1988

M. FIEDLER (Prague 1, Czechoslovakia) AND THOMAS L. MARKHAM (Columbia, South Carolina) An Inequality for the Hadamard Product of an M -Matrix and an Inverse M -Matrix	1
ION ZABALLA (Vitoria-Gasteiz, Spain) Interlacing Inequalities and Control Theory	9
LEROY B. BEASLEY (Logan, Utah) AND NORMAN J. PULLMAN (Ontario, Canada) Semiring Rank versus Column Rank	33
KONRAD J. HEUVERS (Houghton, MI), L. J. CUMMINGS (Ontario, Canada), AND K. P. S. BHASKARA RAO (Calcutta, India) A Characterization of the Permanent Function by the Binet- Cauchy Theorem	49
K. G. JINADASA (Normal, IL) Applications of the Matrix Operators vech and vec	73
SHMUEL FRIEDLAND (Chicago, IL) Bounds on the Spectral Radius of Graphs with e Edges	81
G. J. OLSDER AND C. ROOS (Delft, The Netherlands) Cramer and Cayley-Hamilton in the Max Algebra	87
CLARK JEFFRIES (Montreal, Canada) AND P. VAN DEN DRIESSCHE (Victoria, Canada) Eigenvalues of Matrices with Tree Graphs	109
DAVID L. POWERS (Potsdam, NY) Graph Partitioning by Eigenvectors	121
H. VÄLIAHO (Helsinki, Finland) Testing the Definiteness of Matrices on Polyhedral Cones	135
XU ZHONG (Xian, China) On Inverses and Generalized Inverses of Hessenberg Matrices	167
TOMASZ SZULC (Poznań, Poland) A Lower Bound for the Perron Root of a Nonnegative Matrix	181
MIROSLAV FIEDLER AND VLASTIMIL PTÁK (Praha 1, Czechoslovakia) Loewner and Bézout Matrices	187
H. L. TRENTELMAN AND J. W. VAN DER WOUDE (Eindhoven, The Netherlands) Almost Invariance and Noninteracting Control: A Frequency- Domain Analysis	221
CHI-KWONG LI (Madison, WI) Matrices with Some Extremal Properties	255

SABUROU SAITOH (Kiryu, Japan)	
Quadratic Inequalities Associated with Integrals of Reproducing Kernels	269
AUTHOR INDEX	281

Special Issues in Progress

1. Proceedings of the Victoria Conference on Combinatorial Matrix Theory. To appear as Volume 107, August 1988.
2. In honor of Alan J. Hoffman on his 65th birthday; special editors are Robert E. Bixby, Uriel G. Rothblum, and Alexander Schrijver. Submission deadline: December 31, 1987. Details in Volume 85, January 1987.
3. Proceedings of the Valencia Conference on Linear Algebra and Applications; special editors are Michael Neumann, Graciano de Oliveira, and Vincente Hernandez. Submission deadline: December 31, 1987.
4. Proceedings of the Fourth Haifa Matrix Conference; special editors are Abraham Berman, Daniel Hershkowitz, and Leonid Lerner. Submission deadline: April 30, 1988.
5. Linear Systems and Control; special editors are P. A. Fuhrmann, H. Kimura, and J. C. Willems. Submission deadline: May 31, 1988. Details in Volume 99, February 1988.
6. Linear Algebra and Statistics; special editors are Michael D. Perlman, Friedrich Pukelsheim, and George P. H. Styan. Submission deadline: September 30, 1988. Details in Volume 99, February 1988.
7. Linear Algebra in Image Reconstruction from Projections; special editors are Yair Censor, Tommy Elfving, and Gabor T. Herman. Submission deadline: November 30, 1988. Details in Volume 99, February 1988.

